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UNITED STATES DEPARTMENT OF AGRICULTURE,  
FOREST SERVICE.

HENRY S. GRAVES, Forester.

# October Field Program, 1915.

This program of field work and assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

## OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.

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FINDLEY BURNS, in charge of technical review.

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T. W. NORCROSS, assistant chief engineer.

R. R. RANDELL, assistant engineer.

GEORGE B. SUDWORTH, dendrologist.

EUGENE S. BRUCE, expert lumberman.

## ACCOUNTS.

M. E. FAGAN, chief; A. W. SMITH, assistant chief.

## OPERATION.

JAMES B. ADAMS, assistant forester, in charge; D. D. BRONSON, forest inspector; ALLEN S. PECK, forest inspector; GEORGE G. ANDERSON, inspector of records; W. J. MANGAN, examiner.

GEOGRAPHY.—C. A. KOLB, Chief.

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PHOTOGRAPHY.—E. S. SHIPP.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SUPPLIES.—S. L. McLAURIN, property clerk.

## SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; R. Y. STUART, forest inspector; E. E. CARTER, forest inspector; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Inspection.—L. S. Murphy.

Compilation of State forest laws.—Miss J. S. Peyton.

Collaborators, State cooperative fire protection under the Weeks law.—F. E. Mace, land agent and forest commissioner, Augusta, Me.; E. C. Hirst, State forester, Concord, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; R. C. Jones, State forester, Charlottesville, Va.; H. J. Kaestner, State forester, Belington, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; J. E. Barton, State forester, Frankfort, Ky.; M. Schaaf, State forester, Roscommon, Mich.; F. B. Moody, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; G. W. Roskie, State forester, Custer, S. Dak.; J. C. Van Hook, State forester, Helena, Mont.; G. A. Day, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; E. W. Ferris, State forester and fire warden, Olympia, Wash.

Study of forest conditions in North Carolina in cooperation with State Geological and Economic Survey.—J. S. Holmes, Chapel Hill.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—E. S. BRYANT, chief.

## GRAZING.

A. F. POTTER, associate forester, in charge; WILL C. BARNES, assistant forester; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing, in charge, and Alfred E. Aldous, grazing examiner, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

William R. Chapline, grazing assistant, Silver City, N. Mex.

Range reserve experiments.—C. E. Fleming, grazing examiner; L. C. Hurtt, grazing assistant, Las Cruces, N. Mex.

## LANDS.

E. A. SHERMAN, assistant forester, in charge.

LAND CLASSIFICATION.—JOHN D. JONES, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

ENTRY SURVEYS.—ROBERT V. R. REYNOLDS, in charge.

BOUNDARIES.—B. L. WHEELER, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

CLAIMS AND OCCUPANCY.—CHARLES H. SQUIRE, in charge.

## RESEARCH.

EARLE H. CLAPP, assistant forester, in charge; HARRY IRION, office assistant.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—C. R. Tillotson, E. H. Frothingham, W. R. Mattoon, W. D. Sterrett, G. N. Lamb, Benton MacKaye, E. R. Hodson, C. H. Shinn, G. E. Clement.

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

Cloquet Experiment Station in cooperation with the University of Minnesota.—W. H. Kenety, Cloquet, Minn.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—HOWARD F. WEISS, director.

Administrative assistants.—H. S. BETTS and CARLILE P. WINSLOW.

ADVISORY BOARD.—Dr. W. K. Hatt, mechanical and civil engineer, Purdue University; Prof. Charles F. Burgess, chemical engineer; Dr. L. R. Ingersoll, professor of physics, University of Wisconsin; Prof. I. W. Bailey, forestry school, Harvard University.

Commercial extension.—ROLF THIELEN.

Review of results.—FRANK J. HALLAUER.

Lumber studies.—D. G. WHITE.

DERIVED PRODUCTS.—S. F. ACREE, in charge; Ernest Bateman, A. W. Schorger, F. W. Kressman, R. C. Palmer, Homer Cloukey, R. C. Judd.

ENGINEERING.—A. L. HEIM, in charge; James O. Bixby.

MAINTENANCE.—CHAS. P. JUCKEM, in charge.



**PULP AND PAPER.**—OTTO KRESS, in charge; Sidney D. Wells, H. E. Surface, G. C. McNaughton, Sidney E. Lunak, Clinton K. Texter.

**TIMBER PHYSICS.**—H. D. TIEMANN, in charge; Eloise Gerry, N. de W. Betts, M. E. Diemer, James E. Imrie, A. Kochler, Gertrude Griffin.

**TIMBER TESTS.**—JOHN A. NEWLIN, in charge; A. K. Armstrong, Thomas R. C. Wilson, Leslie R. Morris, Robt. L. Pettigrew.

**WOOD PRESERVATION.**—CLYDE H. TEESDALE, in charge; Geo. E. Hunt, Robt. E. Prince, P. R. Hicks.

**PATHOLOGY** (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruby J. Tiller.

**INDUSTRIAL INVESTIGATIONS.**—H. S. BETTS, acting in charge, Washington, D. C. Correlation of Lumber Grades and Consumers' Specifications, divided between members of office. Departmental Cooperation, Inspection and Revision of Government Specifications, J. C. Nellis and R. K. Helphenstine, jr., Washington, D. C. Production of Lumber and Forest Products (in cooperation with the Bureau of Crop Estimates, the Bureau of the Census, and lumber manufacturers' associations), A. H. Pierson, Washington, D. C. Veneer Investigations, S. L. Wolfe, Washington, D. C. Tight and Slack Cooperage Investigations, John T. Harris, Washington, D. C. Box Industry Investigations, J. C. Nellis, Washington, D. C. Study of Commercial Southern Yellow Pine to Determine Quality of Material Grown Throughout the South and Sold in the Principal Markets, and Application of Density Rules (in cooperation with yellow pine associations), W. D. Brush, Washington, D. C. Mechanical Utilization of Mill and Factory Waste, R. K. Helphenstine, jr., Washington, D. C. Market Summaries and Lumber and Stumpage Price Records, J. C. Nellis, Washington, D. C. Collaborator, A. B. Strough, Albany, N. Y.

## ACQUISITION OF LANDS UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester in charge, Washington, D. C.

**LUMBERMAN'S EXAMINATIONS.**—E. D. Fletcher, Gorham, N. H.; C. D. Cushing and George E. Marshall, Washington, D. C.

**EXAMINATION OF LANDS.**—W. W. ASHE, forest inspector in charge, Washington, D. C. White Mountain Area, D. W. Martin, forest examiner in charge of party, Gorham, N. H.; H. S. Davis, H. L. Steffins, W. J. Damtoft, J. S. Kaplan, assistants. Potomac Area, C. E. Beaumont, forest examiner in charge of party, Woodstock, Va. Shenandoah Area, R. C. Hall, forest examiner in charge of party, W. R. Barbour, assistant, Harrisonburg, Va. Natural Bridge Area, H. M. Sears, forest assistant in charge of party, Buena Vista, Va. Boone Area, E. Bruner, forest examiner, Marion, N. C. Mount Mitchell Area, R. J. Noyes, forest examiner in charge of party, Marion, N. C. Savannah (S) Area, H. G. Spahr, forest examiner, Clayton, Ga. Cherokee Area, S. H. Thompson, forest examiner, Etowah, Tenn. Unaka Area, J. L.

Cobbs, jr., forest examiner in charge of party, Johnson City, Tenn.; E. L. Lindsey, assistant.

**SURVEY OF LANDS.**—RUDOLPH DIEFFENBACH, forest examiner, in charge; Robert G. Merritt, forest examiner, Washington, D. C. White Mountain Area, Arthur E. Hoxie, examiner of surveys, Gorham, N. H. Potomac Area and Massanutten Area, E. R. Conrad, examiner of surveys, Woodstock, Va. Unaka Area, W. N. Sloan, examiner of surveys, Johnson City, Tenn. Mount Mitchell Area, Dave M. Gibson, examiner of surveys, Marion N. C. Nantahala Area, J. W. Fox and James Denman, examiners of surveys, Andrews, N. C. Savannah (N) Area, Harold G. Wood, examiner of surveys, Highlands, N. C. Boone Area, Frederick A. Gardner, E. L. Merrill, and A. M. Ockerblad, examiners of surveys, Marion, N. C. Natural Bridge Area, Beverly M. Higginbotham, examiner of surveys, Buena Vista, Va.

**LAW.**—A. H. McCONVILLE, assistant to solicitor, in charge, Washington, D. C. Title attorneys, George E. Taylor, Bristol, Tenn.; James H. Swann and John E. Taylor, Benton, Tenn.; Alfred S. Grigg and E. W. R. Ewing, Johnson City, Tenn.; Julius Fletcher, Asheville, N. C.; John P. Wenchel, Marion, N. C.; Cameron F. McRae, Biltmore, N. C.; Gordon M. Combs and John Awtrey, Clayton, Ga.; M. B. Stickley, Staunton, Va.; Pierce R. Massie, Fincastle, Va.; W. L. Newman and M. E. Stickley, Woodstock, Va.; Frederick Goshorn, Elkins, W. Va.; H. A. Lamprey, Woodsville, N. H.; Andrew A. Manning, Walhalla, S. C.

## DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, and southwestern North Dakota. Office, Federal Building, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

**LAW.**—Office of the solicitor (Forest Service branch). D. F. McGOWAN, assistant to the solicitor, in charge; A. W. HERGER, assistant to the solicitor.

**ACCOUNTS.**—JOHN A. URBANOWICZ, district fiscal agent.

**OPERATION.**—R. H. RUTLEDGE, assistant district forester; R. B. ADAMS, superintendent of telephone construction.

**FIRE DETECTION.**—JOHN B. SOMERS.

**FIRE CONTROL.**—D. M. CONNER.

**MAINTENANCE.**—GARDNER I. PORTER.

**GEOGRAPHY.**—F. E. BONNER. G. H. LAUTZ, entry surveys; C. F. FARMER, topographic surveys.

**SILVICULTURE.**—J. F. PRESTON, assistant district forester.

**Administrative assistants.**—CHARLES K. McHARG, JR., and JOSEPH KITTREDGE, JR.

LOGGING ENGINEERING.—J. W. GIRARD, lumberman; F. R. MASON, deputy supervisor.

TIMBER SALES.—Field supervision, C. E. KNOUF, lumberman.

PLANTING.—E. F. WHITE and E. H. HALL.

PRODUCTS.—H. N. KNOWLTON, engineer in forest products.

INSECT CONTROL.— ———.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.

GRAZING.—C. H. ADAMS, assistant district forester.

STUDIES.—HOMER S. YOUNGS, grazing examiner.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN.

SETTLEMENT.—J. W. STREIT.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

## EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—DONALD R. BREWSTER, in charge, Priest River, Idaho.

## NATIONAL FORESTS.

### IDAHO.

Clearwater.—W. B. WILLEY, forest supervisor, Orofino (WU-Am).

Coeur d'Alene.—M. H. WOLFF, forest supervisor, Coeur d'Alene (WU-Am); F. I. Rockwell and Richard C. Eggleston, forest examiners; F. V. Fullaway, jr., forest assistant in charge of reconnaissance crew.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU-Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU-Am, N, W); C. L. Billings, deputy forest supervisor.

Selway.—CHARLES F. HOWELL, forest supervisor, Kooskia (WU-N).

St. Joe.—EDWARD A. HOLCOMB, forest supervisor, St. Maries (Continental-WF).

### MONTANA.

Absaroka.—ERNEST W. SHAW, forest supervisor, Livingston (WU-Am, N).

Beartooth.—R. TREVOR FERGUSON, forest supervisor, Billings (WU-Am, N); J. C. Whitham, deputy forest supervisor.

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU-Am); John E. David, deputy forest supervisor.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU-Am, N); H. F. Lindsay, forest examiner.



**Blackfeet.**—R. P. McLAUGHLIN, forest supervisor, Kalispell (WU—Am, GN) ; T. E. Miller, deputy forest supervisor.

**Cabinet.**—CARL M. STEVENS, forest supervisor, Thompson Falls (WU—Am, N).

**Custer.**—GEORGE E. MARTIN, forest supervisor, Miles City (WU—Am, N).

**Deerlodge.**—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P—Am, N) ; C. N. Whitney, C. R. Clark, and A. B. Hastings, forest examiners.

**Flathead.**—JOSEPH D. WARNER, forest supervisor, Kalispell (WU—Am, GN) ; John H. Clack and Emery E. Wilson, deputy forest supervisors.

**Gallatin.**—R. E. BODLEY, forest supervisor, Bozeman (WU—Am, N) ; A. H. Abbott, deputy forest supervisor.

**Helena.**—J. B. SEELY, forest supervisor, Helena (WU—Am, N).

**Jefferson.**—SCOTT LEAVITT, forest supervisor, Great Falls (WU—Am, N) ; Wellman Holbrook, deputy forest supervisor.

**Kootenai.**—GLEN A. SMITH, forest supervisor, Libby (WU—Am, GN) ; John C. Ketrige, forest examiner.

**Lewis and Clark.**—JUSTIN K. DWINELLE, forest supervisor, Chouteau (WU—Am, GN).

**Lolo.**—ELERS KOCH, forest supervisor, Missoula (WU, P—Am, N) ; John E. Keach, forest examiner ; William W. Bennett, deputy forest supervisor.

**Madison.**—ROSCOE G. WILSON, forest supervisor, Sheridan (WU—Am, N) ; Burr W. Clark, deputy forest supervisor.

**Missoula.**—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P—Am, N) ; Fay G. Clark, deputy forest supervisor.

**Sioux.**—See South Dakota.

#### NORTH DAKOTA.

**Dakota.**—ARTHUR C. HAINES, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche—Am via Bellefourche).

#### SOUTH DAKOTA.

**Sioux.**—ARTHUR C. HAINES, forest supervisor, Camp Crook (WU via Bellefourche—Am via Bellefourche).

#### WASHINGTON.

**Kaniksu.**—M. N. STICKNEY, forest supervisor, Coolin, Idaho (WU via Priest River—Am, Gn via Priest River) ; J. F. Forsythe, deputy forest supervisor.

## DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, western Kansas, northern Michigan, and northern Minnesota. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; LYLE A. WHITSIT, hydroelectrical engineer; T. W. VENEMANN, information.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester; JOHN McLAREN, special detail.

A. E. PALEN, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—F. H. CARROLL.

GEOGRAPHY.—ROBT. E. PRATT.

SILVICULTURE.—C. M. GRANGER, assistant district forester M. W. THOMPSON, forest examiner; EARL B. TANNER, lumberman.

PLANTING.—SEWARD D. SMITH.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester.

STUDIES.—LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; RESS PHILIPS, land classification; J. B. CAMMANN, mineral examiner.

## EXPERIMENT STATIONS.

Fremont, Pike National Forest.————, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—J. L. GLENDENING, Wagon Wheel Gap, Colo., and Thomas A. Blair, of the Weather Bureau.

## NATIONAL FORESTS.

### COLORADO.

Arapaho.—ARTHUR T. UPSON, forest supervisor, Hot Sulphur Springs (WU-Ad); D. S. Jeffers, deputy forest supervisor.

Battlement.—JOHN W. LOWELL, Jr., forest supervisor, Collbran (WU-WF); John W. Spencer, forest examiner.

Cochetopa.—ALVA A. SIMPSON, forest supervisor, Saguache (WU-WF).

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU-WF).

Durango.—W. R. FRASER, acting forest supervisor, Durango (WU-WF); R. S. Wheeler, forest examiner.

- Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU-WF).
- Hayden.—See Wyoming.
- Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU-WF); Peter Keplinger, forest examiner.
- La Sal.—See Utah, District 4.
- Leadville.—R. E. CLARK, forest supervisor, Leadville (WU, P-WF); J. E. Martin, forest examiner.
- Montezuma.—GORDON PARKER, forest supervisor, Mancos (WU-WF).
- Pike.—THEO. SHOEMAKER, forest supervisor, Denver (WU, P-Ad, Am, WF); Fred B. Agee, deputy forest supervisor; Everard S. Keithley, forest examiner; Monument Nursery, W. H. Schrader, forest planting assistant, in charge, Monument.
- Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU-WF); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest examiner.
- Routt.—ARTHUR M. COOK, forest supervisor, Steamboat Springs (WU-Ad); Ray Peck, deputy forest supervisor.
- San Isabel.—W. I. HUTCHINSON, forest supervisor; Westcliffe (WU-WF); Albin G. Hamel, forest examiner.
- San Juan.—H. EARL FRENCH, forest supervisor, Pagosa Springs (WU-WF); A. F. C. Hoffman, forest examiner.
- Sopris.—W. G. BAXTER, acting forest supervisor, Aspen (WU-WF).
- Uncompahgre.—J. N. LANGWORTHY, forest supervisor, Delta (WU-WF); Crosby A. Hoar, forest examiner.
- White River.—JAMES A. BLAIR, forest supervisor, Meeker (WU-WF).

## KANSAS.

- Kansas.—B. R. H. D'ALLEMAND, forest supervisor, Garden City (WU, P-WF); Garden City Nursery.

## MICHIGAN.

- Michigan.—W. B. PIPER, forest supervisor, East Tawas (WU-Am); Huber C. Hilton, forest examiner.

## MINNESOTA.

- Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU-Am, GN).
- Superior.—LESLIE BROWNELL, forest supervisor, Ely (WU-GN).

## NEBRASKA.

- Nebraska.—FRED R. JOHNSON, forest supervisor, Halsey (WU-Ad); Bessey Nursery, Theodore Krueger, forest assistant, in charge.

## SOUTH DAKOTA.

**Black Hills.**—PAUL D. KELLETER, forest supervisor, Deadwood (WU-Ad, Am); William Wiehe, deputy forest supervisor; Percy T. Smith and Earl S. Pierce, forest examiners.

**Harney.**—R. P. IMES, forest supervisor, Custer (WU-Ad); James F. Conner, deputy forest supervisor.

## WYOMING.

**Bighorn.**—C. L. SMITH, forest supervisor, Sheridan (WU-Ad); Andrew G. Stockwell, deputy forest supervisor.

**Black Hills.**—See South Dakota.

**Bonneville.**—C. G. POOLE, forest supervisor, Lander (WU-Am).

**Bridger.**—LEE E. COOPER, forest supervisor, Pinedale (WU-Am).

**Hayden.**—JAMES BLACKHALL, forest supervisor, Encampment (WU, P-Am); P. J. Paxton, forest examiner.

**Medicine Bow.**—GEO. A. DUTHIE, forest supervisor, Laramie (WU, P-Am); F. B. Notestein, forest examiner.

**Shoshone.**—R. W. ALLEN, forest supervisor, Cody (WU-Ad).

**Washakie (Eastern Division).**—C. G. POOLE, forest supervisor, Lander (WU-Am); Michael J. Sweeney, forest examiner.

**Washakie (Western Division).**—LEE E. COOPER, forest supervisor, Pinedale (WU-Am).

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DISTRICT 3.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester; LYLE A. WHITSIT, hydroelectrical engineer; ALDO LEOPOLD, forest supervisor (detail), information.

LAW.—Office of the Solicitor (Forest Service branch). J. O. SETH, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; ROBERT L. DEERING, forest examiner, assistant in operation; PAUL P. PITCHLYNN, national forest examiner, fire study; W. H. GILL, geography; DAVID L. MACBEATH, national forest examiner, road surveys; L. V. SLONAKER, national forest examiner, telephone construction.

O. N. POWELL, highway engineer (Office of Public Roads and Rural Engineering).

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—O. M. BUTLER, assistant district forester on special assignment to lumber industry study; JOSEPH C. KIRCHER, forest examiner, acting in charge; ATHOL A. WYNNE, lumberman; QUINCY RANDLES, forest examiner. Insect and erosion studies: A. J. JAENICKE, forest examiner.



W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; E. N. KAVANAGH, inspector of grazing.

STUDIES.—R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; MORTON M. CHENEY, national forest examiner. Classification: FRANK E. ANDREWS, national forest examiner; REX KING, forest examiner. Entry surveys: W. G. TURLEY, surveyor, Coronado; R. P. A. JOHNSON and C. D. HODSON, surveyors, Coconino; C. A. LONG, surveyor, Alamo; LEE C. DAVES, surveyor, Santa Fe.

## EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner in charge, Flagstaff, Ariz.; C. F. Korstian, forest examiner.

## NATIONAL FORESTS.

### ARIZONA.

Apache.—FREDERIC WINN, forest supervisor, Springerville (P-WF); J. H. Sizer, deputy forest supervisor.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal, via Rodeo, N. Mex. (WU-WF).

Coconino.—JOHN D. GUTHRIE, forest supervisor, Flagstaff (WU, P-WF); Thomas E. McCullough, Gordon T. Backus, and H. D. Burrall, forest examiners.

Coronado.—ROBERT J. SELKIRK, forest supervisor, Tucson (WU-WF); Clifford W. McKibbin, deputy forest supervisor.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU-WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU-WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—CHARLES H. JENNINGS, forest supervisor, Snowflake (P-WF).

Tonto.—C. C. HALL, forest supervisor, Roosevelt (WU-WF).

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P-WF).

### NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Alamogordo (WU-WF).

Carson.—RAYMOND E. MARSH, forest supervisor, Taos (WU-G); Chas. H. Kissam, deputy forest supervisor.

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P-WF); H. Basil Wales, forest examiner.

**Gila.**—HUGH G. CALKINS, forest supervisor, Silver City (WU, P-WF); Ausburn H. Douglas, deputy forest supervisor; Fort Bayard Nursery, H. C. Turner, forest planting assistant.

**Lincoln.**—J. H. KINNEY, forest supervisor, Capitan (WU-WF).

**Manzano.**—JAMES F. MULIEN, forest supervisor, Albuquerque (WU, P-WF); D. O. Arthur, deputy forest supervisor.

**Santa Fe.**—DON P. JOHNSTON, forest supervisor, Santa Fe (WU, P-G, WF); Ira T. Yarnall, deputy forest supervisor; J. Wilbur O'Byrne, forest examiner; Las Gallinas Nursery, Herman Krauch, forest examiner.

## DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester; J. P. MARTIN, district engineer.

**LAW.**—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

**ACCOUNTS.**—Q. R. CRAFT, district fiscal agent.

**OPERATION.**—A. C. MCCAIN, assistant district forester; W. N. SPARHAWK, forest examiner, fire reconnaissance.

CHAS. H. KENDALL, highway engineer (Office of Public Roads and Rural Engineering).

**MAINTENANCE.**—FELIX T. MOORE.

**GEOGRAPHY.**—F. I. SHAFER.

**SILVICULTURE.**—CLINTON G. SMITH, assistant district forester; D. F. SEEREY, logging engineer; D. M. LANG, lumberman; S. C. SCRIBNER, scaler.

**PLANTING.**—JAMES M. FETHEROLF, in charge. N. B. ECKBO and S. E. BOWER, forest examiners.

**GRAZING.**—HOMER E. FENN, assistant district forester; C. N. WOODS, inspector of grazing.

**STUDIES.**—MARK ANDERSON, grazing examiner.

**LANDS.**—T. C. HOYT, assistant district forester; R. E. GERY, assistant; W. B. RICE, in charge of entry surveys; ANGUS M. WOODBURY, land classification.

**SUPPLY DEPOT.**—A. M. SMITH, property clerk; R. E. CONNER, assistant property clerk.

**PROPERTY AUDIT.**—J. G. FALCK, property auditor; W. E. THOMPSON, assistant property auditor.

## EXPERIMENT STATION.

**Utah, Manti National Forest.**—ARTHUR W. SAMPSON, in charge; L. H. Weyl and F. S. Baker, Ephraim, Utah.

## NATIONAL FORESTS.

## ARIZONA.

**Dixie.**—See Utah.

**Kaibab.**—LEE A. HARRIS, forest supervisor, Kanab, Utah (WU-WF).

## IDAHO.

**Boise.**—E. GRANDJEAN, forest supervisor, Boise (WU-Am) ; Dana Parkinson, deputy forest supervisor.

**Cacha.**—See Utah.

**Caribou.**—G. G. BENTZ, forest supervisor, Montpelier (WU-Am) ; L. W. Hastings, deputy forest supervisor ; James H. Hull, forest examiner. Grazing reconnaissance : C. E. Favre.

**Challis.**—DAVID LAING, forest supervisor, Challis (WU-Am).

**Idaho.**—HERBERT GRAFF, forest supervisor, McCall (WU-P) ; H. B. Marias, forest examiner.

**Lemhi.**—C. I. HUDDLE, forest supervisor, Mackay (WU-Am).

**Minidoka.**—W. M. CAMPBELL, forest supervisor, Oakley (WU-Am) ; C. D. Simpson, forest examiner.

**Palisade.**—FRANK J. RYDER, forest supervisor, St. Anthony (WU-Am).

**Payette.**—GUY B. MAINS, forest supervisor, Emmett (WU-Am) ; Lawrence J. Phelan, deputy forest supervisor (on special road work) ; F. S. Moore, deputy forest supervisor.

**Salmon.**—JOHN A. PEARSON, forest supervisor, Salmon (WU-Am) ; S. S. Stewart, deputy forest supervisor.

**Sawtooth.**—M. S. BENEDICT, forest supervisor, Hailey (WU-Am) ; Herbert G. McPheters, deputy forest supervisor.

**Targhee.**—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am) ; Samuel W. Stoddard, deputy forest supervisor.

**Weiser.**—J. B. LAFFERTY, forest supervisor, Weiser (WU-Am) ; A. E. Oman, forest examiner.

## NEVADA.

**Humboldt.**—S. B. ARTHUR, forest supervisor, Gold Creek (WU-WF).

**Nevada.**—GEO. C. THOMPSON, forest supervisor, Ely (WU-WF).

**Ruby.**—JAMES M. RYAN, forest supervisor, Deeth (WU-WF).

**Santa Rosa.**—W. W. BLAKESLEE, forest supervisor, Paradise Valley (WU-Am, WF).

**Toiyabe.**—VERNON METCALF, forest supervisor, Austin (WU, P-WF) ; Raymond G. Steele, deputy forest supervisor, Manhattan.

## UTAH.

- Ashley.**—W. M. ANDERSON, forest supervisor, Vernal (WU-WF) ; Chas. F. Evans, forest examiner.
- Cache.**—E. C. SHEPARD, forest supervisor, Logan (WU-Am) ; Edmund B. S. Spencer, deputy forest supervisor. Grazing reconnaissance : T. B. Nichols, C. C. Forsling. Pocatello Nursery, Arthur P. Say, forest ranger in charge, Pocatello, Idaho.
- Dixie.**—JOHN RAPHAEL, forest supervisor, St. George (WU-WF).
- Fillmore.**—ERNEST WINKLER, forest supervisor, Richfield (WU-WF).
- Fishlake.**—CARL B. ARENTSON, forest supervisor, Salina (WU-WF) ; Carl A. Mattesson, deputy forest supervisor ; David A. Arrivee, deputy forest supervisor.
- La Sal.**—S. B. LOCKE, forest supervisor, Moab (WU-WF).
- Manti.**—B. E. MATTSSON, forest supervisor, Ephraim (WU-WF) ; W. M. Mace, deputy forest supervisor. Grazing reconnaissance : E. C. Sanford, H. W. Johnston, J. A. Willey.
- Minidoka.**—See Idaho.
- Powell.**—GEO. H. BARNEY, forest supervisor, Escalante (WU-WF).
- Sevier.**—J. W. HUMPHREY, forest supervisor, Panguitch (WU-WF) ; Wallace M. Riddle, deputy forest supervisor. Grazing reconnaissance : A. W. Stevens, L. J. Palmer.
- Uinta.**—A. W. JENSEN, forest supervisor, Provo (WU-WF) ; J. Carl Allred, deputy forest supervisor ; J. W. Stokes, forest examiner.
- Wasatch.**—J. F. BRUINS, forest supervisor, Salt Lake City (WU, P-Am, WF) ; H. C. Williams, deputy forest supervisor. Cottonwood Nursery, N. J. Fetherolf, forest planting assistant, in charge ; Beaver Creek Nursery, Asa L. Brower, forest examiner, in charge, Kamas ; Adolph G. Hauge, J. C. Roak, and Lester E. Hitchcock, forest examiners.

## WYOMING.

- Teton.**—R. E. MILLER, forest supervisor, Jackson (WU-Am).
- Wyoming.**—CHARLES A. BEAM, forest supervisor, Afton (WU-Am) ; John E. Ingram, forest examiner.

## DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester ; F. H. FOWLER, district engineer ; J. L. MATHIAS, assistant to district engineer ; W. C. HODGE, Jr., in charge information ; CLARENCE WILEY, national forest inspector.



**LAW.**—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

**ACCOUNTS.**—CHARLES C. BRUNNER, district fiscal agent.

**OPERATION.**—ROY HEADLEY, assistant district forester; D. P. GODWIN, national forest examiner, assigned to fire protection; FREDERICK H. HAFLEY, telephone expert; V. L. BONNER, deputy forest supervisor, assigned to road and entry surveys, etc.

C. C. MORRIS, highway engineer (Office of Public Roads and Rural Engineering).

**MAINTENANCE.**—F. H. SMITH.

**SILVICULTURE.**—T. D. WOODBURY, assistant district forester; L. W. HESS, office assistant; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman.

W. H. GALLAHER, forest examiner, reconnaissance.

RALPH HOPPING, national forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant; G. FLIPPO GRAVATT, scientific assistant, San Francisco, Cal.

**GRAZING.**—C. E. RACHFORD, assistant district forester.

**STUDIES.**—F. D. DOUTHITT, grazing examiner.

**LANDS.**—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; W. H. FRIEDHOFF, mineral examiner. Land classification: S. N. STONER, national forest examiner, in charge of district; J. O. MORROW, national forest examiner, in charge of field party; CARY HILL, forest examiner. Entry surveys: P. L. DAY, national forest examiner, surveyor.

**PRODUCTS.**—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest examiner.

## EXPERIMENT STATIONS.

**Feather River, Plumas National Forest.**—J. A. MITCHELL, forest examiner, in charge, Quincy, Cal.; Stuart B. Show, forest examiner, assistant.

**Converse, Angeles National Forest.**—EDWARD N. MUNNS, forest examiner, in charge, Seven Oaks, Redlands, Cal.

## NATIONAL FORESTS.

### CALIFORNIA.

**Angeles.**—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF).

**California.**—M. A. BENEDICT, forest supervisor, Willows (WU-WF); B. H. Mace, deputy forest supervisor; S. W. Strothman, forest examiner.

**Cleveland.**—S. W. WYNNE, forest supervisor, Escondido (WU-WF).

**Eldorado.**—EVAN W. KELLEY, forest supervisor, Placerville (WU-WF); Oscar M. Evans, forest examiner.

- Inyo.**—A. H. HOGUE, forest supervisor, Bishop (WU-WF).
- Klamath.**—W. B. RIDER, forest supervisor, Yreka (WU-WF); Douglas K. Noyes, forest examiner.
- Lassen.**—W. J. RUSHING, forest supervisor, Red Bluff (P-WF); Hamilton G. Merrill, deputy forest supervisor; Russell Watson, temporary forest assistant, reconnaissance.
- Modoc.**—W. G. DURBIN, forest supervisor, Alturas (WU-WF); Belknap C. Goldsmith, forest examiner.
- Mono.**—See Nevada.
- Monterey.**—N. H. SLOANE, forest supervisor, Big Sur (WU via Soledad-WF via Monterey).
- Plumas.**—D. N. ROGERS, forest supervisor, Quincy (WU-Am); Frank B. Cayot, deputy forest supervisor; George R. Orr and Reese W. Taylor, forest examiners.
- Santa Barbara.**—J. R. HALL, forest supervisor, Santa Barbara (P-WF).
- Sequoia.**—ALLAN B. PATTERSON, forest supervisor, Hot Springs (WU via Ducor-WF); F. P. Cunningham, deputy forest supervisor; George W. Lyons, forest examiner.
- Shasta.**—R. F. HAMMATT, forest supervisor, Sisson (P-WF); M. R. Tillotson, deputy forest supervisor; Edward I. Kotok, forest examiner; Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.
- Sierra.**—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant-WF via Friant); Chester E. Jordan, deputy forester supervisor; D. C. Birch and Ernest G. Dudley, forest examiners; C. H. Ensign, scaler, timber sales.
- Stanislaus.**—R. W. AYRES, forest supervisor, Sonora (WU-WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest examiner.
- Tahoe.**—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF); W. A. Merrill, deputy forest supervisor; L. T. Larsen and K. Mills, forest examiners; J. T. Noddin, forest ranger, timber sales.
- Trinity.**—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF); J. D. Coffman, deputy forest supervisor; Ernest V. Jotter, forest examiner.

## NEVADA.

- Eldorado.**—See California.
- Inyo.**—See California.
- Mono.**—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF).
- Tahoe.**—See California.

## DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; LEONARD LUNDGREN, district engineer.

**LAW.**—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

**ACCOUNTS.**—A. H. COUSINS, district fiscal agent.

**OPERATION.**—C. H. FLORY, assistant district forester; Shirley Buck, forest inspector.

B. J. FINCH, highway engineer (Office of Public Roads and Rural Engineering).

**INSPECTION UNDER WEEKS LAW.**—N. G. JACOBSON and A. G. JACKSON, forest examiners.

**FIRE STUDIES.**—W. B. OSBORNE, deputy forest supervisor.

**SILVICULTURE.**—F. E. AMES, assistant district forester; AUSTIN CARY, logging engineer, assigned to district 6, in charge of investigation of lumber industry; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS and C. H. WOODCOCK, logging engineers; L. A. NELSON and EDWIN C. ERICKSON, lumbermen.

**PLANTING.**—J. F. KÜMMEL, C. P. WILLIS, and W. H. LEVE, forest examiners.

**FOREST INVESTIGATIONS.**—T. T. MUNGER, forest examiner.

**GRAZING.**—T. P. MACKENZIE, assistant district forester.

**LANDS.**—C. J. BUCK, assistant district forester.

**CLAIMS.**—W. M. H. WOODWARD, mineral examiner.

**SETTLEMENT.**—A. H. WRIGHT and A. H. HODGSON.

**USES AND STATIONS.**—T. M. TALBOT.

**LAND CLASSIFICATION.**—J. ROY HARVEY.

**ENTRY SURVEYS.**—A. H. HODGSON.

**WASHINGTON STATE LAND EXCHANGE.**—STANTON G. SMITH.

**PRODUCTS.**—H. B. OAKLEAF, in charge; Claude E. Greider and C. W. Gould, Portland; C. W. Zimmerman, Cornelius Barry, and E. G. Snell, Seattle, Wash.

#### EXPERIMENT STATION.

**Wind River, Columbia National Forest.**—JULIUS V. HOFMANN, forest examiner, in charge, Carson, Wash.

#### NATIONAL FORESTS.

##### ALASKA.

**Chugach.**—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thomas M. Hunt, deputy forest supervisor.

**Tongass.**—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); George L. Drake, forest examiner.

##### OREGON.

**Cascade.**—C. R. SEITZ, forest supervisor, Eugene (WU, P-WF); B. F. Heintzleman, deputy forest supervisor.

**Crater.**—M. L. ERICKSON, forest supervisor, Medford (WU, P-WF); E. H. MacDaniels, deputy forest supervisor; H. D. Foster, Bruce Hoffman, forest examiners.

- Deschutes.—MELVIN L. MERRITT, forest supervisor, Bend (WU, P) ; V. V. Harpham, deputy forest supervisor.
- Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev-P, WF) ; R. A. Bradley, deputy forest supervisor.
- Klamath.—See California.
- Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker-Am, WF via Baker).
- Minam.—EPHRAIM BARNES, forest supervisor, Baker (WU-Am) ; W. E. White, forest examiner.
- Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T-Am) ; R. E. Smith, forest examiner.
- Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P-Am, WF, N) ; Ralph S. Shelley, deputy forest supervisor ; R. H. Wallace and Geo. A. Bright, forest examiners ; Robert Craig, national forest examiner.
- Santiam.—F. H. BRUNDAGE, forest supervisor, Albany (WU, P-WF) ; A. R. Wilcox, forest examiner.
- Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P-WF) ; D. B. Reynolds, deputy forest supervisor ; H. Haefner, forest examiner.
- Siuslaw.—H. B. RANKIN, forest supervisor, Eugene (WU, P-WF) ; C. T. Beach, deputy forest supervisor ; H. M. Johnson and L. B. Pagter, forest examiners.
- Umatilla.—W. W. CRYDER, forest supervisor, Pendleton, (WU, P-Am) ; F. B. Kellogg, forest examiner.
- Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P-WF) ; George Bonebrake, deputy forest supervisor ; A. F. Kerr, forest examiner.
- Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU-Am) ; N. J. Billings, deputy forest supervisor.
- Wenaha.—See Washington.
- Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker-Am, WF via Baker) ; R. M. Evans, deputy forest supervisor ; T. J. Starker, forest examiner ; F. A. Matz, national forest examiner.

## WASHINGTON.

- Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee).
- Columbia.—A. E. COHOON, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N) ; W. W. G. Hastings, deputy forest supervisor ; L. Wernsted, forest examiner.
- Colville.—C. C. REID, forest supervisor, Republic (WU, P-Am, GN) ; F. W. Cleator, deputy forest supervisor.
- Oaknogan.—H. M. HALE, forest supervisor, Okanogan (PT & T-Am, GN via Wenatchee).



Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P-Am, GN, N) ; A. A. Parker, deputy forest supervisor ; E. J. Hanzlik, forest examiner.

Rainier.—G. F. ALLEN, forest supervisor, Tacoma (WU, P-Am, N) ; P. T. Harris, deputy forest supervisor ; E. J. Fenby, forest examiner.

Snoqualmie.—LEWIS A. TREEN, Jr., acting forest supervisor, Seattle (WU, P-N, GN, WF).

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N).

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN).

## DISTRICT 7.

Arkansas, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Porto Rico. Office, Atlantic Building, Washington, D. C.

WM. L. HALL, district forester ; FRANKLIN W. REED, assistant district forester ; H. O. STABLER, assistant district forester ; S. L. WOLFE, forest examiner, in charge of products.

### NATIONAL FORESTS.

#### ARKANSAS.

Arkansas.—R. C. HUEY, acting forest supervisor, Hot Springs (WU, P-WF, P) ; E. J. Mead, forest examiner.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU-WF) ; A. C. Christeson, deputy forest supervisor ; C. J. Heller, forest examiner.

#### FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Camp Pinchot, Garniers (WU, P) ; W. F. Hill, deputy forest supervisor.

#### OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU-WF).

#### PORTO RICO.

Luquillo.—(Not under administration.)

## PURCHASE AREAS.

- Boone.**—L. L. BISHOP, forest examiner, in charge, Marion, N. C. (WU, P-So).
- Cherokee.**—H. L. JOHNSON, forest examiner, in charge, Etowah, Tenn. (WU, P-Ad).
- Georgia.**—E. V. CLARK, national forest examiner, in charge, Blue Ridge, Ga. (WU, P-Ad).
- Massanutten.**—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P-So).
- Mount Mitchell.**—L. L. BISHOP, forest examiner, in charge, Marion, N. C. (WU, P-So).
- Monongahela.**—W. A. HOPSON, forest examiner, in charge, Elkins, W. Va. (WU, P-Ad).
- Nantahala.**—R. F. HEMINGWAY, forest examiner, in charge, Andrews, N. C. (WU, P-So).
- Natural Bridge.**—J. H. FAHRENBACH, forest examiner, in charge, Buena Vista, Va. (WU, P-Ad, So).
- Pisgah.**—VERNE RHOADES, forest examiner, in charge, Asheville, N. C. (WU, P-So).
- Potomac.**—E. D. CLARK, forest examiner, in charge, Woodstock, Va. (WU, P-So).
- Savannah (N).**—J. J. FRITZ, forest examiner, in charge, Highlands, N. C. (WU, P-So).
- Savannah (S).**—R. W. SHIELDS, forest examiner, in charge, Clayton, Ga. (WU, P-So).
- Shenandoah.**—S. H. MARSH, forest examiner, in charge, Harrisonburg, Va. (WU, P-Ad, So).
- Smoky Mountain.**—W. J. DAMTOFT, forest assistant, acting in charge, Townsend, Tenn. (WU, P-So).
- Unaka.**—E. P. BUSHNELL, forest examiner, in charge, Johnson City, Tenn. (WU, P-So).
- White Top.**—H. L. RUSSELL, forest examiner, acting in charge, Abingdon, Va. (WU, P-So).
- White Mountain.**—J. S. BENEDICT, forest examiner, in charge, Gorham, N. H. (WU, P-Am).

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 SERVICE CHANGES.

## APPOINTED.

**RESEARCH.**—Laboratory: David T. Mason, collaborator; Otto Kress, pulp and paper engineer.

**SILVICULTURE.**—State cooperation: Herbert J. Kaestner, collaborator.

**DISTRICT 1.**—Operation: Ogden E. Brooks and Milford E. Raymond, Coeur d'Alene; Frank L. Bosworth, S. W. Murdock, and Alfred L. Ross-

man, Flathead; A. M. Anderson, St. Joe, scalers; Carlyn C. Delavan and Richard A. Hamilton, Cocur d'Alene, forest assistants; Claud E. Sutton, Nezperce; Topliff O. Paine, St. Joe, assistant forest rangers; John F. Gillings, Beartooth, forest clerk; Beatrice F. Welch, Deerlodge; Mary S. Buzzell, Lewis and Clark; Elva T. Crane, St. Joe, clerks (stenographers and typewriters). District office: Myrtie M. Slasor, clerk (stenographer and typewriter).

DISTRICT 2.—Operation: George W. Goodson, Bonneville; William F. Cochran, Routt; Willard C. Hassel, Superior; Walter A. Wagner, Uncompahgre, assistant forest rangers; Walter J. Hoffman, Fremont experiment station; Raymond G. Colwell, San Isabel, clerks (forest); Bertha S. Kaltenbach, district office; Mrs. Ruth B. Woods, Medicine Bow, clerks (stenographers and typewriters); Earl W. Tinker, Black Hills; Thomas H. Gill and Andrew Hutton, Bonneville; Bernard E. Leete, Medicine Bow; Gerald M. Hunter, Routt, forest assistants.

DISTRICT 3.—Operation: Chas. E. Lippert, district office, copyist topographic draftsman; Frank C. Severns, district office, blue printer; Herbert B. Herms, Apache (by transfer from Reclamation Service); Harry J. Yardley, Carson; Victor A. Frey, Lincoln, clerks (forest); Julia Ziegler, Carson, clerk (stenographer and typewriter); Chas. K. Cooperrider, Santa Fe, assistant forest ranger. Lands: Anna H. Meyers, district office, clerk (stenographer and typewriter). Grazing: Paul H. Roberts, district office, assistant forest ranger.

DISTRICT 4.—Operation: Arthur W. Stevens, Caribou, assistant forest ranger; Nellie Fletcher, district office, clerk (stenographer and typewriter). Grazing: Clarence L. Forsling, Cache; Leon H. Weyl, Utah experiment station, grazing assistants.

DISTRICT 5.—Operation: Carroll H. Lamb, Sequoia, clerk (forest). Grazing: Fred D. Douthitt, district office, grazing examiner.

DISTRICT 6.—Operation: John C. Christian and Geo. M. Sadler, Rainier; Chas. F. Allen, Siskiyou; Ulva F. Collins and John E. Flurry, Umpqua, assistant forest rangers; David H. Blakelock, Whitman, draftsman; Oliver M. Porter, Malheur, forest assistant.

#### PROMOTED IN RANK.

FORESTER.—Water power: Ralph R. Randell, junior engineer to assistant engineer.

DISTRICT 1.—Operation: Justin K. Dwinelle, Lewis and Clark, deputy forest supervisor to forest supervisor; Charles B. Baker, Blackfeet; Samuel V. Fullaway, jr., Coeur d'Alene; Herman J. A. Grossmann, Jefferson; Ernest C. Rogers, Priest River experiment station, forest assistants to forest examiners; C. Lee Billings, Pend Oreille, assistant forest ranger to deputy forest supervisor; William P. Hillman, Helena; Sherwood S. McEwan, Kaniksu, assistant forest rangers to forest rangers. District office: Homer S. Youngs, grazing assistant to grazing



examiner; Joseph Kittredge, jr.; Charles K. McHarg, jr., forest assistants to forest examiners; Hartley A. Calkins, draftsman (topographic) to surveyor-draftsman; D. M. Conner, national forest examiner to deputy forest supervisor.

DISTRICT 2.—Operation: Arthur T. Upson, Arapaho, deputy forest supervisor to forest supervisor; Luke E. Smith, Bighorn; Robert C. McConnell, Colorado; Harry O. Halleck, Sopris, assistant forest rangers to forest rangers; William R. Fraser, Durango, forest ranger to deputy forest supervisor; Richard A. Phillips, Harney, forest assistant to forest examiner; K. G. Brown, Uncompahgre, assistant forest ranger to clerk.

DISTRICT 3.—Operation: Thomas Earl Wylder, Apache; Robert H. Zeiger, Prescott, assistant forest rangers to forest rangers; O. Fred Arthur, Manzano, forest ranger to deputy forest supervisor.

DISTRICT 4.—Operation: Edwin C. Shepard, Cache; Samuel B. Locke, La Sal, deputy forest supervisors to forest supervisors; Vernon Metcalf, Toiyabe, clerk to forest supervisor; David A. Arrivee, Fishlake, forest examiner to deputy forest supervisor; Edmund B. S. Spencer, Cache; Frank S. Moore, Payette; Wallace M. Riddle, Sevier; Samuel W. Stoddard, Targhee, forest rangers to deputy forest supervisors; Charles D. Simpson, Minidoka; Lyle F. Watts, Wyoming, forest assistants to forest examiners; Thomas J. Burke and George P. Low, Fillmore; Samuel A. Buchannan, Minidoka; Walter C. Mellenthin and Foster Steele, Targhee; Elmer E. McGinness, Weiser, assistant forest rangers to forest rangers. District office: Clinton G. Smith, forest supervisor to assistant district forester. Grazing: Mark Anderson, grazing assistant to grazing examiner.

DISTRICT 5.—Operation: Clarence Wiley, district office, clerk to national forest inspector. Lands: Charles S. Brothers, district office, clerk to national forest inspector.

DISTRICT 6.—Operation: Robt. Craig, jr., Oregon; Fred A. Matz, Whitman, forest rangers to national forest examiners; Jason P. Williams, Tongass; Claude W. Waterbury, Whitman, assistant forest rangers to forest rangers. Land exchange: Ryle Teed, district office, assistant forest ranger to national forest examiner.

#### CHANGE IN DESIGNATION.

DISTRICT 1.—Operation: Alfred J. Feary, Kaniksu, forest ranger to scaler; Wallace W. Weber, Flathead; Winslow L. Gooch, Sioux, forest assistants to assistant forest rangers.

DISTRICT 2.—Operation: Harold Allen Speidel and Ernest T. Wolf, Bonneville, forest assistants to assistant forest rangers; Louis Knowles, Harney, deputy forest supervisor to forest ranger; Roscoe B. Weaver, Routt, assistant forest ranger to forest assistant.

DISTRICT 4.—Operation: J. G. Falck, district office, property auditor to clerk; John E. Ingram, Wyoming, deputy forest supervisor to forest examiner.



## RESIGNED.

RESEARCH.—Laboratory: Harlow Bradley, assistant engineer in forest products.

ACQUISITION.—Robert E. Witt, examiner of surveys; Karl Schmitt, forest examiner.

DISTRICT 1.—Operation: Donald Bruce, Flathead; Thomas C. Spaulding, Lewis and Clark, forest supervisors; Harry M. Ralston, Blackfeet; James W. Stanton, Deerlodge; Percy Knowles, Gallatin; Claud O. Houghton, Kootenai, assistant forest rangers; Dorothy Nebergall, St. Joe, clerk (stenographer and typewriter). District office: D. T. Mason, assistant district forester.

DISTRICT 2.—Operation: Forman T. McLean, Fremont experiment station, forest examiner; Regina S. Emmerich, district office, clerk (stenographer and typewriter); Eugene Williams, Cochetopa, forest supervisor; Bernard M. Shoemaker, San Isabel, clerk (forest); Louis H. Murphy, Harney; Leon E. Thomas, Kansas; Victor C. Follenius, Pike; Pleasant H. Sallee, Routt; Albin E. Drakenberg, Superior, assistant forest rangers.

DISTRICT 3.—Operation: Paul J. Keifer, district office, blue printer; Howard B. Waha, district office, national forest examiner; G. Harris Collingwood, Apache; Leslie Clayton, Coconino; Robert W. Nourse, Datil; Chas. E. Reagan and Harry W. Ulmo, Prescott, assistant forest rangers; Birtsal W. Jones, Coronado; Edgar M. Twitty, Tusayan, forest rangers. Law: Pearl E. Tompkins, district office, clerk (stenographer and typewriter). Grazing: Arthur D. Read, district office, forest examiner. Lands: Chas. M. Weber, district office, draftsman.

DISTRICT 4.—Operation: Orrin C. Snow, Sevier, forest supervisor; Doctor B. Bailey, Nevada, deputy forest supervisor; Frank A. Travis, Wyoming, forest ranger; William Scott Barton, Cache; Edward A. Killpack, Palisade; Walter F. Brough, Uinta; John Fee, Teton, assistant forest rangers.

DISTRICT 5.—Operation: Ralph Coles Doughty, Angeles; Orville H. Hughes, Modoc, assistant forest rangers; Walter C. Robinson, Plumas, forest ranger.

DISTRICT 6.—Operation: Lynn F. Cronemiller, Fremont; George Tonkin, Umatilla, assistant forest rangers.

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With deep regret announcement is made of the death of Perry L. Snodgrass, forest ranger, Bighorn, July 11; Arthur G. Collins, assistant forest ranger, Wenatchee, July 25; Charles P. Gage, assistant forest ranger, Datil, July 31; and Ernest B. Clark, assistant forest ranger, Cabinet, September 3.

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## SERVICE NOTES FOR OCTOBER.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

### SERVICE ORDER 45.

#### Establishment of the Branch of Research—

There is hereby established the Branch of Research in the Forest Service under the direction of Assistant Forester E. H. Clapp. The changes in the organization and procedure involved will be effective on June 1, 1915, but changes in allotments and accounting records will not be made until the beginning of the fiscal year 1916.

The Branch of Research is established in conformity with Memorandum No. 121, issued by the Secretary of Agriculture on March 10, 1915. Its purpose is to bring together under one executive head the various lines of research or investigative work conducted by the Forest Service. Correlation between the various kinds of investigative work has been secured effectively during the past three years by the central and district investigative committees. It is now deemed advisable to make such correlation more complete, which can be done only by bringing the lines of research under the same administrative direction. At the same time it is necessary to segregate investigative work more definitely from administrative work in accordance with the policy established for the department by the Secretary's Memorandum No. 121. It is further the purpose of this change to give the research work and personnel the fullest possible recognition and to develop and strengthen research as a coordinate division of the Service.

It is essential at the same time to retain intimate correlation between investigative and administrative work in order that the researches undertaken may be adapted as closely as possible to the current administrative needs of the Service, that administrative officers may be kept in close touch with research activities and continue to participate in the consideration of proposed work and development of plans for its prosecution, and that the results obtained may be directly and speedily applied in administration. When desirable, arrangements may be made to conduct certain investigations partly or entirely with the administrative personnel and under the direction of administrative officers. The procedure under the Branch of Research will therefore be so organized as to insure the participation of the administrative branches in their related lines of research to as full an extent as at the present time. Any cases of disagreement be-

tween the chief of Research and the chief of administrative branches on proposed research projects, allotments, assignments of personnel, etc., will be referred to the Forester for decision. Instructions to district foresters regarding the application of the results of research to National Forest work will be issued through the administrative branch concerned. Similar correspondence with persons outside of the Forest Service will ordinarily be handled by the Branch of Research, but the approval of the administrative branch concerned will be obtained in important cases.

To further correlate research and administrative activities, the Branch of Research will be placed under the general supervision of Assistant Forester W. B. Greeley. It will, however, be entirely distinct from and independent of the Branch of Silviculture.

The new branch will have the same functions in matters of general Service policy, personnel changes, approval of Forest working plans, approval of boundary changes, etc., which are discharged by the other branches.

The following Service activities, with the organization necessary to conduct them as indicated specifically in each instance, are transferred to the Branch of Research:

1. Silvicultural investigations, including the present office of investigations in the Branch of Silviculture in its entirety and studies of State forest conditions now conducted by the office of State co-operation. This transfer extends to the sections of computation and compilations, the Forest Service library, and the work conducted by the Forest Service in forest pathology, in cooperation with the Bureau of Plant Industry.

2. The forest products laboratory at Madison, Wis.

- 3 Industrial investigations, hitherto conducted as an office in the Branch of Products.

4. The study of the lumber industry, a special project hitherto conducted in part by the Branch of Silviculture and in part by the Branch of Products; and all other studies related to lumbering.

5. Studies in fire protection, including only work of a distinctly investigative character in this field, hitherto handled by the Branch of Operation. This excludes all matters of instruction, organization, correct methods in the protection of National Forests, and other work of an administrative nature.

6. Statistical investigations, including the statistical work on the production of forest products, lumber prices, stumpage prices, etc., now collected and compiled by the office of industrial investigations, and any other statistical investigations conducted by the Forest Service.

The foregoing does not involve the transfer of units of organization now conducting statistical work primarily for administrative purposes to the Branch of Research. It will be the duty of that branch, however, to correlate and supervise the statistical work of the Forest Serv-



ice as a whole, and it will be responsible for the efficient development of all statistical work conducted by the Service.

The work conducted by the Branch of Research will not include timber, grazing, or fire reconnaissance, the development of private forestry in the eastern States, the control of insect depredations on the National Forests, nor grazing studies, which will remain for the present under the Branch of Grazing.

Excepting only the personnel engaged upon grazing studies, the organization of the Branch of Research will include the entire personnel of the Forest Service which is engaged upon research work exclusively; and the great bulk of its activities will be conducted by such members of the Service. Where advisable, however, certain lines of work under the direction of this branch may be conducted by administrative officers, who, for this purpose and to this extent only, will be under the direction of the assistant forester in charge.

The Branch of Research will direct in each district all of the lines of investigation indicated above which are conducted in the district concerned, including forest products, market and lumbering studies, the silvicultural experiment station, the collection of statistics on lumber prices, the work in forest pathology, general economic investigations, and statistical investigations. Ultimately it will be desirable in every district to have all of the research work directed by this branch placed under the direction of one member of the district office staff, who will be in charge of an office of research. No attempt will be made to bring this organization about within any specified time, but only as it may appear practicable in accordance with available funds and personnel and the most efficient means of conducting the various kinds of investigation. For the present, the various kinds of research work in each district will remain under the direction of the respective offices to which they are now assigned.

In view of the correlation of research work at Washington effected by the establishment of the new branch, the continuance of the central investigative committee is no longer deemed necessary, and that committee is therefore discontinued, effective June 1. The assistant forester in charge of Research will assemble and correlate the investigative projects proposed by each branch or other unit in the Service, including the Branch of Grazing, and make up the annual investigative program for submission to the Forester. All investigative projects proposed by any unit in the Service will be submitted to him in accordance with the instructions in Service Order 41.

In order to secure adequate consideration of all of the administrative needs in each district, as bearing upon the character of the investigative work which should be done, and particularly to continue the representation of the supervisors in each district in consideration of plans for research, the district investigative committees will continue to exercise the function assigned to them by Service Order 41, including



the preparation of an annual program of investigative projects for the district.

Supplemental instructions to put this order into effect as to personnel assignments, filing arrangements, procedure as between the Branch or Office of Research and other branches or offices, etc., will be issued in the near future by the assistant forester in charge of Research with the approval of the chief of the administrative branch concerned and of the Forester or acting forester.

## LAW.

### OFFICE OF THE SOLICITOR.

#### Law Cases in District 2—

*United States v. The Tin Cup Gold Dredging Co., Leadville and Gunnison National Forests*: A claim for \$58.87 against the Tin Cup Gold Dredging Co. on account of timber cut in construction of a transmission line under final water-power permit issued July 26, 1913, was filed with the referee in bankruptcy July 29, 1915.

*United States v. R. T. Walker et al*: Certain lands in the Harney National Forest had been made the basis for a lieu selection under the act of June 4, 1897. Patent had issued to the whole 160 acres of the base land and also the 40 acres of the lieu selection. The lieu selection for the remaining 120 acres has not yet been approved or patented. Timber was cut from all the base land. On June 16, 1915, decree was entered, canceling the patent to all the base land and quieting title to 40 acres thereof in the United States, and for damages in the sum of \$1,399.54 for timber cut from this 40 acres, together with costs.

*United States v. B. G. Neland*: Occupancy trespass, Shoshone National Forest. This was a suit in equity for a mandatory injunction to compel the defendant to vacate certain land within the Shoshone National Forest, which he was occupying without permit, and to clean up the area by the removal of the structures he had erected thereon and by placing it in a sanitary condition. On June 10, 1915, decree was issued as prayed for.

*United States v. C. W. Johnson*: Grazing trespass, Montezuma National Forest. Judgment by stipulation for \$40 and \$54.75 costs, entered May 4, 1915.

*United States v. Ellen Sanborn*: Grazing trespass, Pike National Forest. Judgment by stipulation for \$5 and \$7.02 costs, entered May 6, 1915.

*United States v. W. R. Sanborn*: Grazing trespass, Pike National Forest. Judgment by stipulation for \$5 and \$7.32 costs, entered May 6, 1915.

*United States v. Dennis Henault*: Occupancy trespass, Harney National Forest. Temporary injunction granted July 1, 1915, restraining

defendant from occupying Custer ranger station and from interfering with forest officers improving the land.

*United States v. Andrew Mickelson*: Timber trespass, Black Hills National Forest. Consent judgment for \$72.85 damages and \$151.14 costs, entered May 25, 1915.

*United States v. I. N. Pepper*: Failure to complete timber sale, Uncompahgre National Forest. Complaint was filed June 14, 1915, for damages in the sum of \$68.75 resulting through defendant's failure to complete a timber-sale contract.

#### Law Cases in District 3—

*United States v. Wm. P. Sproull*: Grazing trespass, Tonto National Forest. Temporary injunction granted August 3.

*United States v. John Clary*: Grazing trespass, Coronado National Forest. Permanent injunction granted September 27.

*United States v. E. R. Chambers*: Grazing trespass, San Juan National Forest (District 2). Judgment \$17.27, and \$176.13 costs, August 2.

*United States v. Robert Eames*: Fire trespass, Alamo National Forest. July 8, defendant held for grand jury under \$2,000 bond.

*United States v. H. Roehrs*: Driving automobile on Hermit Rim road, Grand Canyon National Monument. September 8, defendant fined \$25.

*United States v. Evaristo Candelaria*: Fire trespass, Apache National Forest. September 8, defendant fined \$25; fine paid.

*United States v. Wm. Fourr*: Occupancy trespass, Chiricahua National Forest. Judgment \$54.19, and \$183.80 costs; satisfied August 11.

*United States v. Kellogg & Estabrook*: Grazing trespass, Prescott National Forest. Judgment for \$1,000, and \$111.50 costs; satisfied August 16.

*Ralph H. Cameron v. Register and Receiver, United States Land Office, Phoenix, Ariz.*: Application for injunction against register and receiver to prevent their proceeding with hearings in cases involving mineral locations on which no application for patent has been made. September 8, application for temporary injunction denied, and complaint dismissed on ground that the court had no jurisdiction to interfere with proceedings.

#### Law Cases in District 4—

*United States v. Max Parks*: Property trespass, Boise National Forest. Upon being arrested and taken before the United States commissioner at Boise the defendant pleaded guilty to a complaint charging him with interfering with a telephone line of the United States in violation of section 60 of the Penal Code, and was bound over to await the action of the grand jury. The offense consisted in cutting from a Forest Service telephone line about 30 feet of wire, which was used in repairing a wagon.

*United States v. Dow Dyer*: Property trespass, Minidoka National Forest. On February 15, 1915, defendant was indicted for the stealing

of an ax and shovel belonging to the United States. Upon pleading guilty to the indictment he was fined \$50 and given 60 days in which to pay it. Owing to the poverty of his family a jail sentence was not imposed.

*United States v. Ralph L. Call*: Grazing trespass, Boise National Forest. Settled by payment of \$6 actual damages, \$10 punitive damages, and costs amounting to \$5.60, or \$21.60 in all. Suit dismissed September 13, 1915.

*Utah Light & Traction Co. v. United States*: Appeal from decree of district court enjoining the company from maintaining and operating certain hydroelectric power works on the Wasatch National Forest. Set for hearing before the United States Circuit Court of Appeals at Denver on September 29.

*Utah Power & Light Co. v. United States* (two cases): Appeal from decree of district court enjoining the company from maintaining and operating certain hydroelectric power works on the Cache and Wasatch National Forests. Set for hearing before United States Circuit Court of Appeals at Denver on October 6.

#### **Law Cases in District 5—**

*United States v. Pine Valley Water & Land Co.*: Cleveland National Forest. In a suit to cancel an easement for reservoir granted under the act of March 3, 1891, relinquishment was filed by the company and the case closed.

*United States v. C. J. Caldwell*: Modoc National Forest. A decree was entered by the district court canceling three easements for reservoirs and ditches granted under the act of March 3, 1891.

*United States v. Harold T. Power*: Tahoe National Forest. Suit to recover the value of certain timber cut from a railroad section was dismissed on the classification of the land as nonmineral by the Interior Department.

*United States v. Wildanger and Everett*: Eldorado National Forest. Criminal action was brought against the defendants under the State law for the leaving of a camp fire on private land on the shores of Lake Tahoe. A fine of \$50 was imposed.

*United States v. J. & J. Blair Lumber & Land Co.*: Eldorado National Forest. Timber trespass was settled without suit by the payment of \$626.45.

*United States v. Weed Lumber Co.*: Timber trespass, Shasta National Forest. Settlement was made by payment of \$3,000.

*United States v. J. T. McKay*: Grazing trespass, Mono National Forest. Settled by payment of \$33.33.

*United States v. R. R. Scarborough*: Fire trespass, Angeles National Forest. The defendant paid the expenses of extinguishing a fire accidentally started, which amounted to \$58.25.

*United States v. G. U. Wray*: Timber trespass, Sequoia National Forest. Settled by payment of \$181.41.



## SERVICE PUBLICATIONS ISSUED.

*Department Bulletin 207.*—The Cypress and Juniper Trees of the Rocky Mountain Region.

*Department Bulletin 229.*—The Naval Stores Industry.

*Department Bulletin 234.*—Utilization and Management of Lodgepole Pine in the Rocky Mountains.

*Department Bulletin 244.*—Life History of Shortleaf Pine.

*Unnumbered Publication.*—The Use Book.

*Unnumbered Publication.*—Fire Protection in District 1.

*Unnumbered Publication.*—Trail Construction on the National Forests.

*Unnumbered Publication.*—Telephone Construction and Maintenance on the National Forests.

*Unnumbered Publications.*—Suggestions and Information to Prospective Forest Homestead Applicants.

Accounting Section of the National Forest Manual.

Folder for Klamath National Forest.

Folder for Lassen National Forest.

Folder for Olympic National Forest.

Folder for Rainier National Forest.

Folder for Sawtooth National Forest.

Folder for Sequoia National Forest.

Folder for Siskiyou National Forest.

Folder for Tahoe National Forest.

Folder for Tonto National Forest.

Folder for Umatilla National Forest.

Folder for Whitman National Forest.

## CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

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